

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Mr. Michael Casey on 6/19/08 and 6/25/08.

3. The application has been amended as follows:

In the specification:

i) **Abstract:**

Line 22, delete "A task needs to";

Line 23, delete ""have a thread assigned to it before the task can be executed.";

In the claims:

i) **Replace claim 16:**

Claim 16 (Currently Amended): A computer system for optimizing processing of an annotation request, comprising:

a request processor configured to receive said annotation request from a client, to query a memory to find relevant information corresponding to said annotation request, and to break said annotation request down into a plurality of requisite tasks needed to execute

said annotation request if said relevant information is not found, wherein said plurality of requisite tasks includes annotating a retrieved web page with additional hyperlinks;

a task queue for storing the plurality of requisite tasks needed to execute said annotation request;

a thread controller for controlling a thread pool having a plurality of threads, wherein said thread controller assigns said plurality of threads from said thread pool to said plurality of requisite tasks in said task queue; and

a task executor for concurrently executing the plurality of requisite tasks in the respective plurality of threads to completion on the request processor.

ii) **Replace claim 19:**

Claim 19 (Currently Amended) A method for optimizing processing of an annotation request received from a client at a request processor, comprising the steps of:

receiving said annotation request from said client;

querying a memory to find relevant information corresponding to said annotation request;

breaking said annotation request down into a plurality of constituent tasks needed to complete the execution of said annotation request if said relevant information is not found,

wherein said plurality of constituent tasks includes annotating a retrieved web page with additional hyperlinks;

storing said plurality of constituent tasks into a task queue;

maintaining a plurality of threads assignable to said plurality of constituent tasks;

assigning said plurality of threads to said plurality of constituent tasks in said task queue; and

executing concurrently said plurality of constituent tasks in the respective plurality of threads to completion on the request processor.

iii) **Replace claim 36**

Claim 36 (Currently Amended): A computer system for optimizing processing of an annotation request, comprising:

a request processor configured to receive said annotation request from a client, to query a memory to find relevant information corresponding to said annotation request, and to break said annotation request down into a plurality of requisite tasks needed to execute said annotation request if said relevant information is not found, wherein said plurality of requisite tasks includes checking a cache to determine whether information pertaining to said annotation request is present in said cache;

a task queue for storing the plurality of requisite tasks needed to execute said annotation request;

a thread controller for controlling a thread pool having a plurality of threads, wherein said thread controller assigns said plurality of threads from said thread pool to said plurality of requisite tasks in said task queue; and

a task executor for concurrently executing the plurality of requisite tasks in the respective plurality of threads to completion on the request processor.

iv) **Replace claim 39**

Claim 39 (Currently Amended) A method for optimizing processing of an annotation request received from a client at a request processor, comprising the steps of:

receiving said annotation request from said client;

querying a memory to find relevant information corresponding to said annotation request;

breaking said annotation request down into a plurality of constituent tasks needed to complete the execution of said annotation request if said relevant information is not found, wherein said plurality of constituent tasks includes checking a cache to determine whether information pertaining to said annotation request is present in said cache;

storing said plurality of constituent tasks into a task queue;

maintaining a plurality of threads assignable to said plurality of constituent tasks;

assigning said plurality of threads to said plurality of constituent tasks in said task queue; and

executing concurrently said plurality of constituent tasks in the respective plurality of threads to completion on the request processor.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to LILIAN VO whose telephone number is (571)272-3774. The examiner can normally be reached on Thursday 8am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on 571-272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Meng-Ai An/

Lilian Vo

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